
Zbl 1188.05103

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Upper bounds for energy of a graph. (English)

Adv. Stud. Contemp. Math., Kyungshang 16, No. 2, 279-285 (2008). ISSN 1229-3067

Summary: The energy of a graph G is defined as the sum of absolute values of the eigenvalues of the graph G and is denoted by $E(G)$. In this paper we obtain two eigenvalues of a strongly quotient graph SQG with n vertices and maximum number of edges and use them to establish an upper bound for energy of SQG.

Keywords : graph labeling; adjacency matrix; eigenvalues; energy of graph
Classification :
∗05C78 Graph labelling
05C50 Graphs and matrices
58C40 Spectral theory on manifolds